

In the Claims

Please cancel claims 11, 12 and 14-21 without prejudice or disclaimer. Please amend the claims as follows:

1. (Original) A gas burner comprising:
 - a) a source of primary air under pressure;
 - b) an elongate, generally cylindrical sheet metal body, having an inlet end, a closed distal end and a tubular segment extending between said ends;
 - c) said distal end defining a mounting flange;
 - d) said inlet end being formed to define a gas orifice holder, said holder mounting a gas orifice element;
 - e) said inlet end further formed to define at least one primary air opening arranged to admit primary air from said source into said tubular segment;
 - e) a bluff body located downstream from said gas orifice element and positioned such that gas emitted by said orifice flows along a flow path and impinges on said bluff body, said bluff body formed at least partially by a one dimple formed near said inlet end that projects into said flow path, a center point of said dimple being located downstream of said orifice element; and,
 - f) a series of flame ports defined in said tubular segment and arranged to create a desired, predetermined flame pattern.
2. (Original) The gas burner of claim 1, wherein said flame ports are arranged in a linear pattern and at least some of said flame ports being slot-like in configuration and having an effective size determined by the orientation of a bent tab element that partially defines each of said ports.
3. (Original) The gas burner of claim 2, wherein said linear pattern of flame ports comprises three rows of adjacent slot-like openings.
4. (Original) The gas burner of claim 1, wherein said bluff structure includes a second dimple positioned in a confronting relation to said one dimple.
5. (Withdrawn)

6. (Withdrawn)
7. (Original) A gas burner comprising:
 - a) a source of primary air under pressure;
 - b) an elongate, generally cylindrical sheet metal body, having an inlet end, a closed distal end and a tubular segment extending between said ends;
 - c) said distal end defining a mounting flange;
 - d) a gas orifice element mounted at said inlet end;
 - e) said inlet end further formed to define at least one primary air opening arranged to admit primary air from said source into said tubular segment;
 - e) a bluff body located downstream from said gas orifice element and positioned such that gas emitted by said orifice flows along a flow path and impinges on said bluff body, said bluff body formed at least partially by a one dimple formed near said inlet end that projects into said flow path, a center point of said dimple being located downstream of said orifice element; and,
 - f) a series of flame ports defined in said tubular segment and arranged to create a desired, predetermined flame pattern.
8. (Original) The gas burner of claim 7, wherein said inlet end is formed to define a gas orifice holder, said holder mounting said orifice.
9. (Original) The gas burner of claim 7, wherein said inlet end further defines primary air openings through which air under pressure is admitted to said burner.
- 10 (Original) The gas burner of claim 7, further including additional mixing structure comprising at least one dimple located downstream of said bluff structure for providing additional mixing of said fuel and air.
11. (Canceled)
12. (Canceled)
13. (Currently Amended) ~~The gas burner of claim 12, wherein~~ A gas burner comprising:
 - a) an elongate, generally cylindrical sheet metal body having an inlet end and a closed distal end and a tubular segment extending between said ends;
 - b) said inlet end including an integrally formed gas orifice holder, said holder

mounting a gas orifice element;

c) said inlet end further formed to define at least one primary air opening arranged to admit primary air into said tubular segment;

d) a plurality of flame ports defined in said tubular segment downstream from said inlet end, at least some of said flame ports being formed by partially punching through a wall of said tubular segment leaving an inwardly bent tab, the effective opening of said some flame ports being determined by an extent to which said tab is bent;

e) a mixing chamber disposed between said orifice holder and said flame ports whereby gas emitted by said orifice is mixed with primary air admitted through said primary air opening;

f) said mixing chamber including a bluff body positioned such that gas emitted by the orifice impinges on said bluff body; and,

g) said bluff body is being formed at least partially by a dimple formed near said inlet end that projects into said mixing chamber.

14 (Canceled)

15. (Currently Amended) ~~The gas burner of claim 14,~~ A gas burner comprising:

a) an elongate, generally cylindrical sheet metal body having an inlet end and a closed distal end and a tubular segment extending between said ends;

b) said inlet end including an integrally formed gas orifice holder, said holder mounting a gas orifice element;

c) said inlet end further formed to define at least one primary air opening arranged to admit primary air into said tubular segment;

d) a plurality of flame ports defined in said tubular segment downstream from said inlet end, at least some of said flame ports defined by openings, each opening having two side edges and a front edge and a tab bent inwardly, such that an effective size of said flame port is determined by the degree to which said tab is bent inwardly;

e) a mixing chamber disposed between said orifice holder and said flame ports whereby gas emitted by said orifice is mixed with primary air admitted through

said primary air opening; and,

f) a first set of flame ports, each of said flame ports of said first set defined by two side edges, a front edge and a tab bent inwardly at a first predetermined orientation, and a second set of flame ports, each flame port of said second set defined by two side edges, a front edge and an associated tab bent inwardly at an orientation different from that of the orientation of the tabs of said first set.

16-21 (Canceled)